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(Rev. 8-83) Patent and Trademark Office

Atty. Docket No.: 0756-1896

Serial No. 09/197,767

**INFORMATION DISCLOSURE STATEMENT**

Applicants: Hisashi OHTANI, et al.

Filing Date: November 23, 1998

Group: 2814

(Use several sheets if necessary)

**U.S. PATENT DOCUMENTS**

Examiner Initial	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (if approp.)
PC	3,982,820	09/28/76	Hattori et al.			
PC	4,640,583	02/03/87	Hoshikawa et al.			
PC	4,796,979	01/10/89	Tsuboyama			
PC	4,911,958	03/27/90	Mochizaki et al.			
PC	4,932,757	06/12/90	Hanyu et al.			
PC	5,083,855	01/28/92	Clark et al.			
PC	5,117,299	05/26/92	Kondo et al.			
PC	5,132,676	07/21/92	Kimura et al.			
PC	5,189,540	02/23/93	Nakamura et al.			
PC	5,212,575	05/18/93	Kojima et al.			

**FOREIGN PATENT DOCUMENTS**

	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
PC	6-40931	05/31/94	Japan			Abstract	
PC	2-503360	10/11/90	Japan			Abstract	
PC	9-211462	08/15/97	Japan			Abstract	
PC	7-13143	01/17/95	Japan			Abstract	
PC	6-331948	12/02/94	Japan			Abstract	
PC	6-347807	12/22/94	Japan			Abstract	
PC	6-337418	12/06/94	Japan			Abstract	

**OTHER DOCUMENTS (Including Author, Title, Relevant Pages, Date, Place of Publication)**

PC	A.D.L. Chandani, et al., "ANTIFERROELECTRIC CHIRAL SMECTIC PHASES RESPONSIBLE FOR THE TRISTABLE SWITCHING IN MHPOBC," Tokyo Inst. Of Tech., June 12, 1989, pp. 34-37.
PC	Michio Shimizu, et al., "CHARACTERISTIC OF A NOVEL LIQUID CRYSTAL CELL WITH MIXTURE OF FLC AND U.V. CURABLE RESIN," Mol. Cryst. Liq. Cryst., Overseas Publishers Association, Vol. 263, 1995, pp. 585-587.

Examiner PCAT & ADate Considered 6/15/01

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Examiner Initial	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (if approp.)
P	5,227,900	07/13/93	Inaba et al.			
P	5,240,801	08/31/93	Hayashi et al.			
P	5,305,126	04/19/94	Xobayashi et al.			
P	5,327,271	07/05/94	Takeuchi et al.			
P	5,330,616	07/19/94	Yamazaki			
P	5,332,521	07/26/94	Yuasa et al.			
P	5,339,306	08/16/94	Yoshinaga et al.			
P	5,412,494	05/02/95	Ishiwata et al.			
P	5,469,281	11/21/95	Katakura et al.			
P	5,473,449	12/05/95	Takemura et al.			

## FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
P	6-337405	12/06/94	Japan			Abstract	
P	6-301039	10/28/94	Japan			Abstract	
P	6-301015	10/28/94	Japan			Abstract	
P	6-289372	10/18/94	Japan			Abstract	
P	6-242409	09/02/94	Japan			Abstract	
P	6-214218	08/05/94	Japan			Abstract	
P	6-186533	07/08/94	Japan			Abstract	

## OTHER DOCUMENTS (Including Author, Title, Relevant Pages, Date, Place of Publication)


Examiner *P. A. A.*Date Considered *6/15/00*

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## U.S. PATENT DOCUMENTS

Examiner Initial	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (if approp.)
	5,389,287	02/14/95	Nishiyama et al.			
	5,739,882	04/14/98	Shimizu et al.			
	5,552,913	09/03/96	Shimizu et al.			
	5,638,194	06/10/97	Yamada et al.			
	5,473,450	12/05/95	Yamada et al.			
	5,541,747	07/30/96	Nishi et al.			
	5,354,497	10/11/94	Fukuchi et al.			
	5,270,846	12/14/93	Watanabe et al.			
	5,594,569	01/14/97	Konuma et al.			

## FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
	6-160824	06/07/94	Japan			Abstract	
	6-160812	06/07/94	Japan			Abstract	
	5-297364	11/12/93	Japan			Abstract	
	5-045636	02/26/93	Japan			Abstract	
	4-362918	12/15/92	Japan			Abstract	
	4-243228	08/31/92	Japan			Abstract	
	4-136814	05/11/92	Japan			Abstract	

## OTHER DOCUMENTS (Including Author, Title, Relevant Pages, Date, Place of Publication)


Examiner *HAZ*Date Considered *6/14/00*

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## U.S. PATENT DOCUMENTS

Examiner Initial	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (if approp.)
pc	5,546,208	08/13/96	Shimizu et al.			
pc	5,583,369	12/10/96	Yamazaki et al.			
pc	5,490,001	02/06/96	Konuma			
pc	5,528,401	06/18/96	Narutaki et al.			
pc	5,530,573	06/25/96	Shimada			
pc	5,592,318	01/07/97	Majima et al.			
pc	5,946,561	08/31/99	Yamazaki et al.			
pc	5,949,107	09/07/99	Zhang			
pc	6,037,197	03/14/00	Yamazaki et al.			
pc						

## FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
pc	62-7022	01/14/87	Japan			Abstract	
pc	63-198024	08/16/88	Japan			Abstract	
pc	64-55527	03/02/89	Japan			Abstract	
pc	01-120532	05/12/89	Japan			Abstract	
pc	2-137819	05/28/90	Japan			Abstract	
pc	0 404 575	12/27/90	EPO			English	
pc	WO 88/08552	11/03/88	WIPO			English	

## OTHER DOCUMENTS (Including Author, Title, Relevant Pages, Date, Place of Publication)


Examiner *pc*Date Considered *6/16/01*

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## INFORMATION DISCLOSURE STATEMENT

Applicants: Hisashi OHTANI et al.

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## U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
je	5,592,318	01/07/1997	Majima et al.			
je	5,706,067	01/06/1998	Colgan et al.			
je	5,739,890	04/14/1998	Uda et al.			
je	5,767,827	06/16/1998	Kobayashi et al.			
je	5,910,271	06/08/1999	Ohe et al.			
je	5,933,204	08/03/1999	Fukumoto			
je	6,008,876	12/28/1999	Moore			
je	6,049,132	04/11/2000	Iwahashi et al.			

Examiner *Patricia A. Carr*Date Considered *2/15/01*

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U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
<i>P</i>	5,562,529	10/08/1996	Kishii et al.			
<i>P</i>	5,567,300	10/22/1996	Datta et al.			
<i>P</i>	5,575,706	11/19/1996	Tsai et al.			
<i>P</i>	5,616,934	04/01/1997	Dennison et al.			
<i>P</i>	5,658,806	08/19/1997	Lin et al.			
<i>P</i>	5,807,165	09/15/1998	Uzoh et al.			

Examiner *PAT. S. KOC*

Date Considered *01/29/01*

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